



e Options

Parameter Description	Select Value	Instructions
Reusable Container Washing Method	Handwash	Select "Handwash" or "No Wash'
Jug Transport Distance	Average	Select "Average" if 75 miles, "Mir
Single-serve Bottle Weight	Minimum	Select Minimum (9.3 g) or Maxim
Single-serve Bottle Recycled Content	None	Select "0%" or "10%"
Recycling Allocation Method	Cutoff	Select "Cutoff" or "System Expan
Bottled Water Source	Spring Water	Select "Spring Water" or "Treated
AWG Vendor	WaterGen	Select "WaterGen" or "Ecoloblue
AWG Water Production	Average	Select "Minimum", "Average", or
AWG Electrical Grid	Average US	Select "Average US", "RFCW", or

1. Summary Comparative Results on an Equivalent Volume of Water Delivered Basis

			Tota
Category	Unit	Single-serve bottle	Reusable Jug
Acidification Potential	kg SO2 eq	5.1E-04	2.3E-04
Cumulative Energy Demand	MJ	2.54	0.93
Eutrophication Potential	kg N eq	1.8E-05	1.2E-05
Fossil Depletion	kg oil eq	0.054	0.020
Global Warming Potential	kg CO2 eq	0.12	0.061
Particulate Matter Formation Potential	kg PM2.5 eq	3.0E-05	1.6E-05
Smog Formation Potential	kg O3 eq	0.0079	0.0049
Solid Waste by Weight	kg SW eq	0.022	0.0016
Water Consumption	liter H2O	1.62	2.03

Category		Percent of	Maximum
	Single-serve bottle	Reusable Jug	AWG (Large Scale)
Acidification Potential	24%	11%	100%
Cumulative Energy Demand	45%	17%	100%
Eutrophication Potential	39%	26%	89%
Fossil Depletion	51%	19%	100%
Global Warming Potential	34%	17%	100%
Particulate Matter Formation Potential	25%	14%	100%
Smog Formation Potential	41%	25%	100%
Solid Waste by Weight	55%	4%	100%
Water Consumption	44%	55%	100%

2. Percent Contribution Results by Life Cycle Stage

		1	
Category	Raw Material Production	Conversion	Water Treatment
Acidification Potential	39%	36%	0%
Cumulative Energy Demand	51%	16%	0%
Eutrophication Potential	49%	20%	3%
Fossil Depletion	53%	15%	0%
Global Warming Potential	43%	22%	0%
Particulate Matter Formation Potential	45%	31%	0%
Smog Formation Potential	40%	26%	0%
Solid Waste by Weight	12%	13%	0%
Water Consumption	11%	10%	72%

			Mı
Category	Raw Material Production	Conversion	Water Treatment
Acidification Potential	11%	4%	0%
Cumulative Energy Demand	12%	3%	0%
Eutrophication Potential	12%	1%	5%
Fossil Depletion	12%	2%	0%
Global Warming Potential	14%	3%	0%
Particulate Matter Formation Potential	25%	3%	0%
Smog Formation Potential	7%	2%	0%
Solid Waste by Weight	0%	11%	1%
Water Consumption	1%	0%	58%

		Large-Scale	AWG Percent (
Category	Capital Equipment	Transport to Point of Use	Operation
Acidification Potential	0%	0%	66%
Cumulative Energy Demand	0%	0%	66%
Eutrophication Potential	11%	0%	56%
Fossil Depletion	0%	0%	66%
Global Warming Potential	1%	0%	66%
Particulate Matter Formation Potential	2%	0%	64%
Smog Formation Potential	0%	0%	66%
Solid Waste by Weight	0%	0%	67%
Water Consumption	0%	0%	66%

Medium-Scale AWG Percent

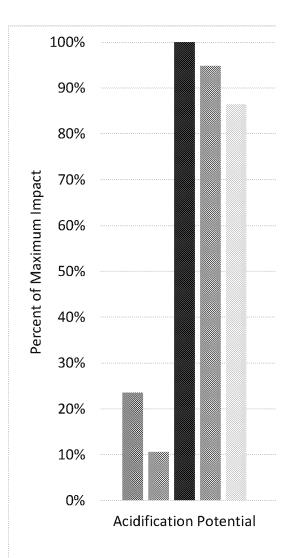
Category	Capital Equipment	Transport to Point of Use	Operation
Acidification Potential	1%	0%	66%
Cumulative Energy Demand	1%	0%	66%
Eutrophication Potential	20%	0%	47%
Fossil Depletion	1%	0%	66%
Global Warming Potential	1%	0%	65%
Particulate Matter Formation Potential	5%	0%	61%
Smog Formation Potential	1%	0%	66%
Solid Waste by Weight	0%	0%	67%
Water Consumption	0%	0%	66%

		Home/Office-Sc	cale AWG Perce
Category	Capital Equipment	Transport to Point of Use	Operation
Acidification Potential	1%	0%	66%
Cumulative Energy Demand	1%	0%	66%
Eutrophication Potential	22%	0%	45%
Fossil Depletion	1%	0%	66%
Global Warming Potential	2%	0%	65%
Particulate Matter Formation Potential	6%	0%	61%
Smog Formation Potential	1%	0%	65%
Solid Waste by Weight	0%	0%	67%
Water Consumption	1%	0%	66%

	Default
1	Handwash
nimum" if 25 miles, "Maximum" if 125 miles	Average
າum (10.9 g). Only lightweight options provided.	Minimum
	None
sion"	Cutoff
d Municipal Water"	Spring Water
п	WaterGen
"Maximum"; Function of relative humidity and temperature (See Table 1)	Average
"FRCC". RFCW and FRCC are eGRID subregions.	Average US

I Impacts Per Liter			
		AWG	
AWG (Large	AWG (Medium	(Home/Office	
Scale)	Scale)	Scale)	Max
0.0022	0.0020	0.0019	0.0022
5.64	5.35	4.88	5.64
4.1E-05	4.6E-05	4.4E-05	4.6E-05
0.106	0.101	0.092	0.106
0.35	0.33	0.31	0.35
1.2E-04	1.2E-04	1.1E-04	1.2E-04
0.019	0.0185	0.017	0.019
0.040	0.038	0.034	0.040
3.66	3.55	3.38	3.66

AWG	AWG
(Medium	(Home/Office
Scale)	Scale)
95%	86%
95%	86%
100%	95%
95%	86%
95%	87%
99%	90%
95%	87%
94%	86%
97%	92%



				Secondary		
	Transportation	Closure Life	Label Life	Packaging Life	Bottle End-	
Filling	to Retail	Cycle	Cycle	Cycle	of-Life	Total
1%	12%	6%	3%	4%	0%	100%
0%	8%	9%	4%	11%	0%	100%
0%	18%	4%	2%	3%	1%	100%
0%	9%	8%	4%	10%	0%	100%
0%	12%	7%	3%	9%	4%	100%
1%	9%	6%	3%	5%	1%	100%
0%	22%	5%	2%	4%	1%	100%
0%	1%	8%	6%	11%	49%	100%
0%	2%	2%	1%	2%	0%	100%

-Serve Reu	sable Jug Percent	Contribution				
Filling	Transportation to and from User	Closure Life Cycle	Reusable Container Washing	Jug Washing	Jug Recycling	Total
1%	38%	5%	33%	7%	0%	100%
1%	38%	9%	33%	5%	0%	100%
0%	38%	2%	33%	8%	0%	100%
1%	40%	8%	33%	4%	0%	100%
1%	40%	5%	33%	4%	0%	100%
1%	28%	4%	33%	5%	0%	100%
1%	52%	3%	33%	3%	0%	100%
3%	21%	11%	33%	18%	0%	100%
0%	2%	1%	33%	5%	0%	100%

Contribution			
Reusable			
Container			
Washing	Disposal	Total	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	

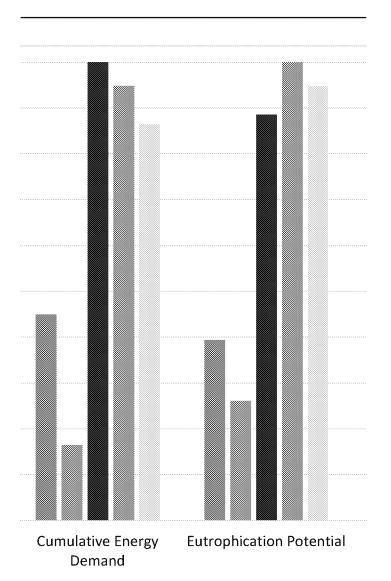
: Contribution

Reusable Container Washing	Disposal	Total
33%	0%	100%
33%	0%	100%
33%	0%	100%
33%	0%	100%
33%	0%	100%
33%	0%	100%
33%	0%	100%
33%	0%	100%
33%	0%	100%

Reusable			
Container			
Washing	Disposal	Total	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	
33%	0%	100%	

Relevant Systems

Multi-serve reusable jug, AWG
Multi-serve reusable jug
Single-serve plastic bottle
Single-serve plastic bottle
Single-serve plastic bottle, Multi-serve reusable jug
Single-serve plastic bottle, Multi-serve reusable jug
AWG
AWG
AWG

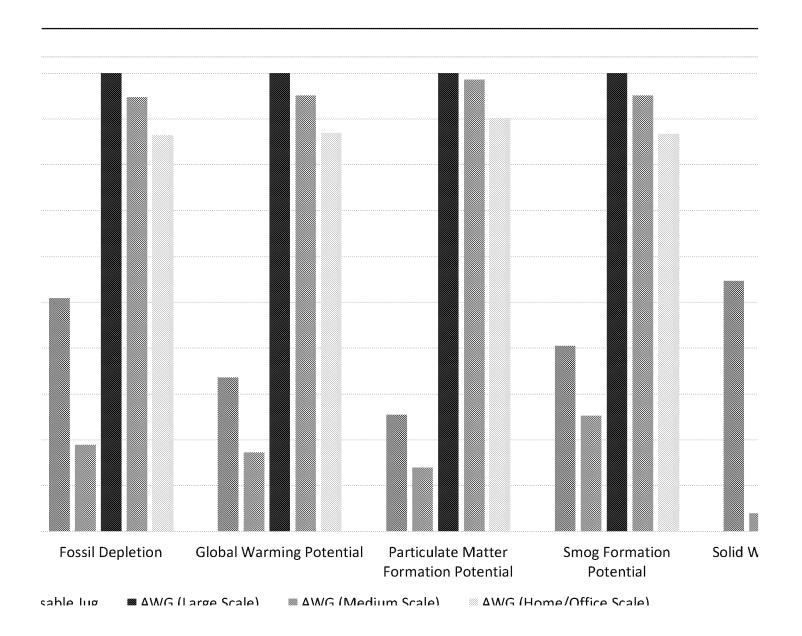


■ Single-serve hottle

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Table 1

Vendor
Scale
Maximum water produced (L/day)
Minimum water produced (L/day)
Modeled value average water produced (L/day)
Relative Humidity range (%)
Temperature range (°C)



Watergen				Ecoloblue			
Large		Medium	Home/Office	Large	Medium	Home/Office	
	5000	578	25	4781	962	30	
	3000	38	15	193	50	20	
	3000	400	25	3000	600	30	
	60	20-70	60	30-80	30-80	0-60	
	26.7	15-40	26.7	0-55	0-55	25-100	

